

Tennessee **Agriculture 2004**



Department Report & Statistical Summary

Tennessee Agriculture & Forestry

Tennessee's top agricultural commodities include cattle and calves, broilers, nursery and floriculture products, soybeans, cotton, corn, dairy products, tobacco, fruits and vegetables, hay, wheat, and hogs. Agricultural production alone, excluding forest products, normally generates around \$2 billion annually in farm cash receipts. Forestry related industries, value-added manufacturing, marketing and distribution, equine, and other agricultural related products also add to the state's economy.

The Tennessee marketplace is global in respect to the past. International trade continues to have a significant impact on Tennessee agriculture, with exports of raw agricultural products totaling almost \$650 million in 2003.

Farming continues to dominate Tennessee's landscape with 87,000 farms producing and selling crops, livestock, and forest products. Forty-four

percent of the state's land area is farmland. More than 14 million acres of farm and non-farm forest lands produce an estimated 964 million board feet of hardwood and approximately 95 million board feet of softwood lumber. This level of production keeps Tennessee within the top five hardwood lumber producing states. Statewide income from the sale of timber approached \$390 million in 2003.

Cash Receipts, 2003



Tennessee: Income From Timber Sales 1994-2003



State Summary

Farms, Land in Farms & Value

Number of Farms: Economic Sales Class, Tennessee, 1998-2003¹

Year	Number of Farms	Economic Sales Class				
		\$1,000- \$9,999	\$10,000- \$99,999	\$100,000- \$249,999	\$250,000- \$499,999	\$500,000 & Over
Number						
1998	90,000	68,000	18,000	1,950	1,250	800
1999	89,000	67,000	18,000	1,950	1,250	800
2000	88,000	66,000	18,000	1,950	1,200	850
2001	88,000	66,000	18,000	1,950	1,200	850
2002	87,500	66,000	17,500	1,950	1,200	850
2003	87,000	65,500	17,500	1,950	1,200	850

¹ A farm is any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year.

Land in Farms: Economic Sales Class, Tennessee, 1998-2003¹

Year	Land In Farms	Average Farm Size	Economic Sales Class				
			\$1,000- \$9,999	\$10,000- \$99,999	\$100,000- \$249,999	\$250,000- \$499,999	\$500,000 & Over
	(000) Acres	Acres	(000) Acres				
1998	11,900	132	4,800	4,000	900	800	1,400
1999	11,900	134	4,800	4,000	900	800	1,400
2000	11,800	134	4,800	3,700	950	950	1,400
2001	11,800	134	4,800	3,700	950	950	1,400
2002	11,700	134	4,800	3,600	950	950	1,400
2003	11,600	133	4,700	3,600	950	950	1,400

¹ A farm is any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year.

Agricultural Land Values and Cash Rents: Tennessee, January 1, 1999-2004

Year	Farm Real Estate ¹	Cropland		Pasture	
	Value per Acre	Value per Acre	Cash Rent per Acre	Value per Acre	Cash Rent per Acre
Dollars					
1999	1,950	2,050	62.00	1,950	16.40
2000	2,100	2,120	60.00	2,050	18.00
2001	2,200	2,200	59.50	2,150	18.00
2002	2,300	2,270	60.50	2,250	17.00
2003	2,400	2,350	62.00	2,350	17.50
2004	2,500	2,420	67.00	2,450	19.00

¹ Includes land and buildings.

Farm Cash Receipts

Leading Commodities for Cash Receipts, Tennessee, 2002-2003¹

RANK	2002			2003		
	Item	Value of Receipts	% of Total	Item	Value of Receipts	% of Total
		\$1,000			\$1,000	
	All Commodities	2,054,086	100.0	All Commodities	2,338,653	100.0
	Livestock & Products	933,760	45.5	Livestock & Products	1,070,850	45.8
	Crops	1,120,325	54.5	Crops	1,267,803	54.2
1	Cattle & calves	346,748	16.9	Cattle & calves	438,289	18.7
2	Greenhouse/nursery ²	275,712	13.4	Broilers	322,320	13.8
3	Broilers	268,410	13.1	Greenhouse/nursery ²	280,433	12.0
4	Soybeans	176,758	8.6	Soybeans	274,757	11.7
5	Dairy Products	172,920	8.4	Cotton	232,507	9.9
6	Cotton	158,544	7.7	Corn	161,075	6.9
7	Corn	144,667	7.0	Dairy Products	159,600	6.8
8	Tobacco	134,441	6.5	Tobacco	90,391	3.9
9	Tomatoes	48,246	2.3	Tomatoes	45,325	1.9
10	Wheat	43,134	2.1	Hay	41,324	1.8
11	Hay	41,186	2.0	Wheat	40,617	1.7
12	Eggs	31,750	1.5	Hogs	35,167	1.5
13	Hogs	30,797	1.5	Eggs	31,900	1.4
14	Snap Beans	9,660	0.5	Snap Beans	11,861	0.5
15	Grain Sorghum	5,467	0.3	Grain Sorghum	6,816	0.3
16	Squash	2,508	0.1	Apples	2,097	0.1
17	Peaches	1,739	0.1	Peaches	1,645	0.1
18	Apples	1,395	0.1	Squash	1,392	0.1
19	Farm Chickens	722	0.0	Farm Chickens	947	0.0
20	Honey	683	0.0	Honey	428	0.0

¹ All data subject to revision the following year. ² Includes commercial floriculture.

Source: Economic Research Service, U.S. Department of Agriculture, August 2004.

Farm Financial Indicators

Farm Income and Value Added Data: Tennessee, 2001-2003

Item ¹	2001	2002	2003
Thousand Dollars			
Value of Crop Production	1,123,482	1,132,969	1,295,478
+ Value of Livestock Production	1,169,288	977,228	1,037,954
+ Services and Forestry Revenues	547,996	630,297	619,354
= Value of Agricultural Sector Production	2,840,766	2,740,494	2,952,786
- Purchased Inputs	1,434,146	1,636,101	1,563,775
+ Net Government Transactions	145,729	(4,073)	61,631
= Gross Value Added	1,552,349	1,100,320	1,450,642
- Capital Consumption	564,547	573,009	572,525
= Net Value Added	987,802	527,311	878,117
- Payments to Stakeholders	376,799	391,536	397,965
Employee Compensation (Hired Labor)	151,628	179,173	170,015
Net Rent Rec'd by Nonoperator Landlords	27,844	13,113	24,871
Real Estate and Nonreal Estate Interest	197,327	199,250	203,079
= Net Farm Income	611,003	135,775	480,152

¹ Value of agricultural sector production is the gross value of the commodities and services produced within a year. Net value-added is the sector's contribution to the National economy and is the sum of the of the income from production earned by all factors-of-production, regardless of ownership. Net farm income is the farm operators' share of income from the sector's production activities. The concept presented is consistent with that employed by the Organization for Economic Cooperation and Development.

Source: Economic Research Service, U.S. Department of Agriculture, September 2004.

Tennessee Rank in U.S. Agriculture, 2003

Item	Unit	Tennessee		Leading State		United States
		Rank	Production	State	Production	
			1,000		1,000	1,000
General						
Farm Numbers	no.	4	87	Texas	229	2,127
Land in Farms	acres	25	11,600	Texas	130,500	938,750
Average Size of Farm ³	acres	44	133	Wyoming	3,743	441
Crops						
Tobacco, E. Dark-Fired	lbs.	1	15,496	Tennessee	15,496	23,504
Tobacco, Burley	lbs.	2	47,500	Kentucky	198,275	281,698
Tobacco, One Sucker	lbs.	2	1,296	Kentucky	6,509	7,805
Tobacco, W. Dark-Fired	lbs.	2	1,340	Kentucky	8,825	10,165
Tobacco, All	lbs.	3	65,632	N. Carolina	299,995	802,654
Hay, Other	tons	4	4,600	Texas	11,730	80,816
Tomatoes, Fresh	cwt.	4	1,225	Florida	13,984	32,644
Snap Beans, Fresh	cwt.	5	366	Florida	2,673	5,715
All Cotton	bales	8	890	Texas	4,374	18,255
Cottonseed	tons	9	311	Texas	1,616	6,665
Sorghum, Grain	bu.	12	3,280	Texas	153,900	411,237
Soybeans	bu.	15	47,040	Illinois	379,620	2,453,665
Corn, Grain	bu.	17	82,530	Iowa	1,884,000	10,113,887
Winter Wheat	bu.	20	13,500	Kansas	480,000	1,716,721
Peaches	lbs.	23	3,500	California	1,898,000	2,519,000
Floriculture, Wholesale	\$	26	49,008	California	1,002,577	5,068,620
Corn, Silage	tons	27	850	Wisconsin	14,080	105,864
Apples	lbs.	27	12,000	Washington	4,500,000	8,613,300
Hay, Alfalfa	tons	32	126	California	7,630	76,307
Livestock						
Beef Cows ¹	head	9	1,103	Texas	5,483	32,860
Broilers	no.	13	182,300	Georgia	1,260,500	8,492,850
All Cattle & Calves ¹	head	14	2,210	Texas	13,900	94,882
Trout Sold	\$	19	198	Idaho	29,407	62,255
All Hogs ²	head	24	215	Iowa	15,900	60,449
Milk Cows ¹	head	28	77	California	1,700	8,991
Milk	lbs.	29	1,205	California	35,437	170,312
All Chickens ²	no.	33	2,260	Iowa	50,882	448,748
Eggs	no.	34	290	Iowa	10,446	87,196
Honey	lbs.	36	280	California	32,160	181,096

¹ January 1, 2004 Inventory. ² December 1, 2003 Inventory.

Top Ranking Livestock and Crop Counties, Tennessee, 2003

Rank	All Cattle	Beef Cows	Milk Cows	All Hogs	All Equine	All Tobacco
1	Greene	Lincoln	Greene	Henry	Rutherford	Macon
2	Lincoln	Greene	McMinn	Weakley	Wilson	Robertson
3	Giles	Maury	Monroe	Gibson	Williamson	Montgomery
4	Maury	Giles	Washington	Fayette	Bedford	Greene
5	Bedford	Bedford	Loudon	Franklin	Marshall	Robertson
6	Washington	Wilson	Marshall	Coffee	Lincoln	Sumner
7	Wilson	Lawrence	Lawrence	Lawrence	Maury	Hawkins
8	Lawrence	White	Robertson	Bedford	Sumner	Claiborne
9	Robertson	Sumner	White	Robertson	Giles	Washington
10	White	Rutherford	Bradley	Macon	Cannon	Montgomery

Rank	Corn	Cotton	Wheat	Soybeans	Alfalfa Hay	All Other Hay
1	Obion	Haywood	Gibson	Dyer	Robertson	Greene
2	Weakley	Crockett	Obion	Gibson	Greene	Lincoln
3	Gibson	Tipton	Weakley	Obion	Washington	Bedford
4	Robertson	Fayette	Robertson	Weakley	Sullivan	Maury
5	Henry	Madison	Dyer	Lauderdale	Hawkins	Giles
6	Dyer	Lauderdale	Henry	Lake	Maury	Washington
7	Carroll	Gibson	Franklin	Henry	Williamson	Wilson
8	Franklin	Dyer	Tipton	Tipton	Sumner	Sumner
9	Montgomery	Carroll	Montgomery	Robertson	Marshall	Williamson
10	Coffee	Shelby	Lake	Fayette	Blount	Warren

Crops

Tennessee Summary, 2002-2003

2002 Crop	Unit	Acreage Harvested	Yield Per Acre	Production	
				Total	Value
		1,000		1,000	\$1,000
Corn for Grain	bu.	610	107	65,270	168,397
Corn for Silage	tons	65	15	975	---
Cotton, Lint	lbs. ¹	530	741	818	177,866
Cottonseed	tons	---	---	291	27,791
Hay, All	tons	1980	2.12	4,200	237,405
Alfalfa	tons	30	3.5	105	12,180
All Other	tons	1950	2.1	4,095	225,225
Grain Sorghum	bu.	26	80	2,080	5,574
Sorghum Silage	tons	2	14	28	---
Soybeans	bu.	1,120	31	34,720	197,904
Tobacco, All	lbs.	34.9	2,044	71,331	147,383
E. Dark-Fired (22)	lbs.	5	3,110	15,550	36,916
W. Dark-Fired (23)	lbs.	0.39	3,550	1,385	3,335
Burley (31)	lbs.	29	1,830	53,070	104,442
One-Sucker (35)	lbs.	0.51	2,600	1,326	2,690
Winter Wheat	bu.	300	47	14,100	41,172
Apples ²	lbs.	1.1	6,550	6,100	1,619
Peaches ²	lbs.	0.5	8,000	3,700	1,739
Floriculture	---	---	---	---	44,287
Squash, Total	cwt.	1.2	96	115	2,508
Snap Beans, Fresh	cwt.	8.9	31	276	9,660
Tomatoes, Fresh	cwt.	4.3	340	1,462	48,246

2003 Crop	Unit	Acreage Harvested	Yield Per Acre	Production	
				Total	Value
		1,000		1,000	\$1,000
Corn for Grain	bu.	630	131	82,530	193,946
Corn for Silage	tons	50	17	850	---
Cotton, Lint	lbs. ¹	530	806	890	253,330
Cottonseed	tons	---	---	311	40,430
Hay, All	tons	2,030	2.33	4,726	262,260
Alfalfa	tons	30	4.2	126	13,860
All Other	tons	2,000	2.3	4,600	248,400
Grain Sorghum	bu.	40	82	3,280	7,806
Sorghum Silage	tons	2	18	36	---
Soybeans	bu.	1,120	42	47,040	341,040
Tobacco, All	lbs.	31.14	2,108	65,632	138,290
E. Dark-Fired (22)	lbs.	5.2	2,980	15,496	38,616
W. Dark-Fired (23)	lbs.	0.40	3,350	1,340	3,248
Burley (31)	lbs.	25	1,900	47,500	93,813
One-Sucker (35)	lbs.	0.54	2,400	1,296	2,613
Winter Wheat	bu.	270	50	13,500	42,795
Apples ²	lbs.	1.1	10,900	11,500	2,903
Peaches ²	lbs.	0.5	7,000	3,200	1,645
Floriculture	---	---	---	---	49,008
Squash, Total	cwt.	1.1	72	79	1,392
Snap Beans, Fresh	cwt.	9.5	43	409	11,861
Tomatoes, Fresh	cwt.	3.5	350	1,225	45,325

¹ Cotton production is in 480 pound net weight bales. ² Utilized production.

Tennessee Crops: Record Highs and Lows

Item	Estimates Began	Unit	Record High		Record Low	
			Quantity	Year	Quantity	Year
			1,000		1,000	
Corn for grain	1866					
Harvested		Acres	3,875	1917	480	1983
Yield		Bushels	132	2001	14	1930
Production		Bushels	106,562	1917	23,040	1983
Corn silage	1919					
Harvested		Acres	170	1973	12	1934
Yield		Tons	19	2001	3.5	1930
Production		Tons	2,560	1976	72	1932
Cotton	1866					
Harvested		Acres	1,146	1925	215	1983
Yield		Pounds	806	2003	103	1923
Production ¹		Bales	978	2001	145	1967
All Hay	1909					
Harvested		Acres	2,035	2001	893	1914
Yield		Tons	2.33	2003	.63	1930
Production		Tons	4,737	2000	699	1911
Alfalfa Hay	1919					
Harvested		Acres	188	1958	15	1924
Yield		Tons	4.20	2003	1.15	1930
Production		Tons	408	1963	19	1925
Grain Sorghum	1949					
Harvested		Acres	465	1985	5	1949
Yield		Bushels	90	1996	17	1954
Production		Bushels	37,200	1985	115	1949
Sorghum Silage	1929					
Harvested		Acres	35	1955	1	1999
Yield		Tons	19	1994	4.5	1930
Production		Tons	315	1955	10	1999
Soybeans	1924					
Harvested		Acres	2,620	1979	8	1925
Yield		Bushels	42.0	2003	6.5	1935
Production		Bushels	70,740	1979	60	1925
Winter Wheat	1866					
Harvested		Acres	1,620	1900	107	1962
Yield		Bushels	56	1999	3	1885
Production		Bushels	37,400	1981	2,008	1866
All Tobacco	1866					
Harvested		Acres	162	1930	21	1874
Yield		Pounds	2,192	1994	300	1874
Production		Pounds	178,117	1982	6,300	1874
E. Dark-Fired (22)	1919					
Harvested		Acres	76	1923	5	2002
Yield		Pounds	3,110	2002	740	1925
Production		Pounds	61,500	1931	11,935	1987
W. Dark-Fired (23)	1919					
Harvested		Acres	30	1919	.39	2002
Yield		Pounds	3,550	2002	700	1930
Production		Pounds	24,450	1919	607	1974
Burley (31)	1919					
Harvested		Acres	89	1952	9.3	1921
Yield		Pounds	2,245	1972	700	1925
Production		Pounds	148,580	1982	7,347	1921
One Sucker (35)	1919					
Harvested		Acres	22	1919	.48	1997
Yield		Pounds	2,600	2002	670	1925
Production		Pounds	18,150	1919	870	1989

¹ Cotton production shown in 480 lb. net weight bales.

Nursery and Floriculture

Tennessee’s second Nursery Production Survey showed that for nursery operations with sales of \$100,000 or more during 2003, the gross value of sales for nine surveyed categories totaled \$109 million. Tennessee ranked eleventh in total gross sales of the country’s top 17 nursery producing states selected for this multi-state survey. Deciduous shade trees accounted for 27 percent of the total, followed by deciduous flowering trees at 25 percent, and propagation material at 12 percent.

Tennessee’s 2003 wholesale value of floriculture crops was up 11 percent from the 2002 value. The total crop value at wholesale for 217 growers with \$10,000 or more in sales was estimated at \$49.0 million, compared with \$44.3 million a year earlier.

Nursery Production: All Operations with \$100,000 + Sales, Tennessee, 2003

Category	Number of Producers	Number Sold	Gross Sales	U.S. Rank	Percent of Sales Wholesale
	Number	1,000	\$1,000		Percent
Broadleaf Evergreens	103	1,546	11,591	14	87
Coniferous Evergreens	91	1,404	9,322	15	81
Deciduous Shade Trees	122	1,597	29,083	6	93
Deciduous Flowering Trees	130	2,926	27,235	3	92
Deciduous Shrubs and Other Ornamentals	103	2,386	8,773	14	87
Fruit and Nut Plants	26	1,414	7,386	5	83
Christmas Trees	4	14	187	14	92
Propagation Material	61	¹	12,510	7	99
Total	387		108,667	11	

¹ This item was not asked.

Floriculture: Growers, Wholesale Value, and Growing Area, Tennessee, 1999-2003

Crop Year	Total Growers	Wholesale Value of Production ¹	Total Greenhouse Cover	Shade and Temporary Cover	Total Covered Area	Open Ground
		1,000	1,000	1,000	1,000	1,000
	Number	Dollars	Square Feet	Square Feet	Square Feet	Square Feet
1999	196	47,062	7,167	198	7,365	159
2000	202	52,373	6,646	230	6,876	227
2001	203	42,649	6,396	89	6,485	189
2002	237	44,287	6,314	125	6,439	362
2003	217	49,008	7,242	94	7,336	355

¹ Wholesale value of sales as reported by growers with \$100,000 or more in sales of floriculture crops plus a calculated wholesale value of sales for growers with sales below \$100,000. The value of sales for growers below the \$100,000 level was estimated by multiplying the number of growers in each size group by the mid-point of each dollar value range.

Tillage Systems

Farmers are the original environmentalists and conservationists. In order to maintain a paying farm, they have long recognized soil and water as the foundation of a successful crop. To address the problem of highly erodible soil, many farmers have adopted no-till and other conservation practices as part of their farming operation. No-Till is a procedure whereby a crop is planted directly into a seedbed not tilled since harvest of a previous crop, or the planting of a crop into sod, previous crop stubble, or a cover where only the intermediate seed zone is disturbed.

Tillage Practices Used: by Crop, Tennessee, 2000-2003

Crop	Year	Total Acres Planted	No-Till	Other Conservation Tillage ¹	Conventional Till ²	Double-Cropped ³
			% of Total ⁴	% of Total ⁴	% of Total ⁴	% of Total
Soybeans	2000	1,180,000	65.3	15.3	19.5	28.0
	2001	1,070,000	72.0	16.8	11.2	28.0
	2002	1,160,000	68.1	18.1	13.8	25.9
	2003	1,150,000	61.7	27.8	10.4	25.2
Corn	2000	650,000	58.5	21.5	20.0	6.2
	2001	680,000	60.3	20.6	19.1	5.1
	2002	690,000	68.1	18.0	13.9	5.1
	2003	710,000	63.4	19.7	16.9	4.2
Sorghum	2000	25,000	20.0	20.0	60.0	2.0
	2001	25,000	32.0	40.0	28.0	4.0
	2002	30,000	43.3	33.3	23.3	5.0
	2003	45,000	28.9	33.3	37.8	6.7
Cotton	2000	570,000	52.6	8.8	38.6	0.3
	2001	620,000	59.7	16.1	24.2	0.3
	2002	565,000	53.1	24.8	22.1	0.3
	2003	560,000	48.2	33.9	17.9	0.3
Wheat ⁵	2000	550,000	36.4	32.7	30.9	----
	2001	500,000	36.0	38.0	26.0	----
	2002	470,000	36.2	40.4	23.4	----
	2003	430,000	37.2	39.5	23.3	----
Total	2000	2,975,000	55.6	18.7	25.7	12.5
	2001	2,895,000	60.0	21.4	18.5	11.7
	2002	2,915,000	59.8	23.1	17.1	11.6
	2003	2,895,000	55.4	28.8	15.8	11.2

¹ Other Conservation Tillage - Tillage practices prior to planting which result in a minimum of 30 percent ground cover or residue being retained on the surface following planting. Includes ridge till, strip till, and mulch till.

² Conventional Till - Systems where 100 percent of the surface layer is mixed or inverted by plowing, power tilling, or multiple disking. ³ Double-Cropped - Two crops harvested from the same field during one year. ⁴ Sum of no-till, other conservation tillage and conventional till percents of total may not add to 100 percent due to rounding.

⁵ Wheat seeded the previous fall for all intended purposes including grain, cover, silage, hay, or any other utilization.

Livestock, Dairy, & Poultry

Summary

The total number of cattle and calves in the State on January 1, 2004, was 2.21 million, three percent below last year's total of 2.70 million. There were an average of 79,000 milk cows on Tennessee farms during 2003, producing 1,205 million pounds of milk. Tennessee's total hog and pig inventory reached an historical low of 215,000 head on December 1, 2003. There were 2.26 million chickens on Tennessee farms on December 1, 2003, up three percent from 2002. In addition, there were 182 million broilers produced during 2003, yielding 948 million pounds of meat valued at \$322 million.

Livestock by Class, Tennessee, January 1, 2002-2004

Classes	2002	2003	2004
	1,000 Head		
All Cows that have Calved	1,150	1,190	1,180
Beef Cows	1,060	1,106	1,103
Milk Cows	90	84	77
Heifers 500 Pounds and Over	290	315	285
For Beef Cow Replacement	175	200	185
For Milk Cow Replacement	40	40	35
Other Heifers	75	75	65
Steers 500 Pounds and Over	118	140	110
Bulls 500 Pounds and Over	72	75	75
Calves under 500 Pounds	570	550	560
All Cattle and Calves	2,200	2,270	2,210
All Hogs and Pigs ¹	225	225	215
Hens and Pullets of Laying Age ¹	1,365	1,256	1,340
Other Pullets ¹	699	770	755
Other Chickens ^{1,2}	186	174	165
All Chickens ^{1,2}	2,250	2,200	2,260

¹December 1 previous year. ² Does not include commercial broilers.

Livestock Operations, Tennessee, 1998-2003¹

Year	Cattle	Beef Cows	Milk Cows	Hogs	Sheep ²
	1,000 Operations				
1998	55	47	2.0	2.2	800
1999	53	46	1.8	1.7	---
2000	52	45	1.6	1.5	---
2001	52	45	1.5	1.5	---
2002	51	45	1.4	1.5	---
2003	51	45	1.3	1.5	---

¹ An operation is any place having one or more head on hand at any time during the year. ² Operations in actual numbers. Estimates discontinued in 1999.

Livestock & Milk

Inventory, Production, Disposition and Income, Tennessee, 2002-2003

Classes	Unit	2002	2003
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1,000

Cattle and Calves:

Inventory Jan. 1	Head	2,200	2,270
Calf Crop	Head	1,060	1,060
Inshipments	Head	50	50
Marketings ¹	Head	932	1,062
Production ²	Pounds	576,003	535,109
Marketings ³	Pounds	532,130	614,010
Cash Receipts ⁴	Dollars	346,748	438,289

Price per 100 lbs.

Cattle	Dollars	58.30	64.20
Calves	Dollars	81.80	90.00

Hogs and Pigs:

Inventory Dec. 1 (prev. yr.)	Head	225	225
Pig Crop	Head	425	429
Inshipments	Head	80	60
Marketings ¹	Head	469	465
Production ²	Pounds	87,193	86,962
Marketings ³	Pounds	91,355	93,410
Cash Receipts ⁴	Dollars	30,797	35,167

Price per 100 lbs.

All Hogs	Dollars	32.10	36.00
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Milk Cows and Production of Milk:

Milk Cows ⁵	Head	88	79
Milk Per Cow	Pounds	14.9	15.3
Total Milk	Pounds	1,315,000	1,205,000
Cash Receipts ⁶	Dollars	172,920	159,600

Average Return

Per 100 Lbs. of Milk	Dollars	13.20	13.30
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¹ Includes custom slaughter for use on farms where produced and state outshipments, but excludes interfarm sales within the state. ² Adjustments made for changes in inventory and for inshipments. ³ Excludes interfarm sales within the state and custom slaughter on farms where produced. ⁴ Receipts from marketings and sale of farm slaughter. ⁵ Average number on farms during year, excluding heifers not yet fresh. ⁶ Cash receipts from marketings of milk and cream, plus value of milk used for home consumption and farm churned butter.

Poultry

The total value of all chickens on Tennessee farms during 2003, excluding commercial broilers, was \$13.8 million, up 3 percent from 2002. The value of eggs produced during 2003, at \$31.9 million, was up slightly from the previous year. Tennessee's value of broilers produced during 2003 was \$322 million, up 20 percent from 2002 value. Total number of broilers produced in 2003 was 182 million, 2 percent below 2002. The price per pound on a live weight equivalent basis in 2003 averaged 4 cents more than in 2002 to 34.0 cents per pound.

Chickens: Number on Farms and Value, Tennessee, 1999-2003

Year	Total Inventory ¹	Value per Bird	Total Value
	1,000 Birds	Dollars	1,000 Dollars
1999	2,155	5.80	12,499
2000	2,210	6.00	13,260
2001	2,250	6.00	13,500
2002	2,200	6.10	13,420
2003	2,260	6.10	13,786

¹ Excludes commercial broilers, but includes hen and pullets, pullets under 3 month, and pullets over 3 months.

Eggs: Production, Price, and Value, Tennessee, 1999-2003

Year	Eggs Produced	Price per Dozen ¹	Value of Production
	Million Eggs	Dollars	1,000 Dollars
1999	274	1.170	26,715
2000	278	1.240	28,727
2001	294	1.300	31,850
2002	300	1.270	31,750
2003	290	1.320	31,900

¹ Average of all eggs sold by producers, including hatching eggs.

Broilers: Production, Price, and Value, Tennessee, 1999-2003

Year	Birds Produced	Pounds Produced	Price Per Pound ¹	Value of Production
	1,000		Cents	1,000 Dollars
1999	150,800	723,800	37.0	267,806
2000	151,300	696,000	33.0	229,680
2001	198,300	932,000	39.0	363,480
2002	186,400	894,700	30.0	268,410
2003	182,300	948,000	34.0	322,320

¹ Liveweight equivalent price.

Equine

The 2004 Tennessee Equine Survey showed assets on equine operations totaled \$6.09 billion on January 1, 2004, up 24 percent from the previous survey conducted in 1999. The value of Tennessee’s 210,000 head of equine (horses, donkeys, and mules) on January 1, 2004, was estimated at \$565 million. In addition to equine inventory, these operations had \$4.89 billion of land, fencing, facilities, and buildings and \$636 million of equipment and supplies. This comprehensive survey was a joint effort of the Tennessee Department of Agriculture, which provided the funding, and USDA’s Tennessee Agricultural Statistics.

Results also showed income from equine sales and related agricultural activities during 2003 was \$259 million. Equine sales during 2003 were valued at \$57.5 million with 23,000 equine sold. Equine related expenditures during 2003 totaled \$597 million. Equipment, feed and bedding, capital improvements, boarding, equine purchases, and veterinarian and health expenditures accounted for the largest share (67 percent). Operations averaged \$14,566 of expenditures for the year, or \$2,844 per animal. Equine are found on 41,000 operations (or places), with the vast majority (67 percent) of operations having less than five head. Collectively, these operations were caretakers for 3.2 million acres in Tennessee.

The State’s top breed was Tennessee Walkers followed by Quarter Horses, with the two combining for more than half of the State’s total equine. The average value per animal was \$2,690, with Middle Tennessee equine leading the State with an average value of \$3,097. The Hunter/Jumper category had the highest value per animal, followed by Thoroughbred, Tennessee Walker, and American Saddlebred. The top five counties in terms of inventory on January 1, 2004, were Rutherford, Wilson, Williamson, Bedford, and Marshall. This survey complements recent data from the 2002 Census of Agriculture, which ranked Tennessee 2nd in the U.S. for number of equine on farms.

Equine Inventory, Total Value, Number Sold and Value of Sales, by District

District	January 1, 2004 Inventory			2003 Sales		
		Total	Average		Total	Average
	Head	Value	Value Per	Head	Value	Value Per
		Mil. Dol.	Dollars		Mil. Dol.	Dollars
10	7,000	14.0	2,000	1,000	1.9	1,900
20	26,000	52.8	2,031	4,900	7.1	1,449
30	25,000	47.7	1,908	3,900	4.6	1,179
40	73,000	284.0	3,890	5,800	28.9	4,983
50	24,000	46.1	1,921	2,400	4.4	1,833
60	55,000	120.4	2,189	5,000	10.6	2,120
State	210,000	565.0	2,690	23,000	57.5	2,500

Agricultural Exports

USDA's Economic Research Service (ERS) publishes estimates of U.S. agricultural export contributions by states on a fiscal year basis (October-September). These estimates are prepared by major commodity groups and usually are based on the assumption that, for each commodity, a state contributes the same export share as its share of production. However, where obvious distortions exist, this procedure is amended. To keep data manageable, ERS limits exports only to states that collectively account for 90 percent of a given commodity's output. They also assume that a state would export only if it had an apparent surplus. They further assume that, although this method could eliminate some exporting states, it is more likely that large exporters would be sufficiently credited. Thus, for Tennessee, ERS no longer publishes estimates for nuts, rice, peanuts, or sunflowers, and no allowance is made for them in the "other" category.

Agricultural Exports: Tennessee and United States, 2002-2003

Commodity	Tennessee		United States	
	2002	2003	2002	2003
Million Dollars				
Soybeans & Products	89.7	104.4	7,332.1	8,287.5
Tobacco, Unmanufactured	82.1	82.6	1,148.4	998.6
Cotton & Linters	96.2	129.1	2,051.6	2,726.7
Cottonseed & Products	4.6	4.8	97.5	102.9
Wheat & Products	81.9	81.9	4,793.6	5,326.8
Feed Grains & Products	52.8	46.8	6,795.6	6,731.0
Live Animals & Meat,				
Excluding Poultry	27.0	23.7	6,098.5	6,483.0
Fats, Oils, & Greases	0.6	0.7	428.0	538.5
Poultry & Products	37.1	30.3	2,280.1	2,105.4
Hides & Skins	0.9	0.8	1,777.3	1,790.3
Vegetables & Preparations	4.1	7.9	4,545.3	4,675.6
Dairy Products	10.2	9.2	1,031.4	1,033.6
Fruits & Preparations ¹	0.3	0.3	3,433.5	3,545.3
Feeds & Fodders	24.9	28.8	1,950.5	1,998.7
Seeds	10.3	7.8	833.3	813.1
Other ²	86.2	89.6	8,694.5	9,029.4
All Commodities³	608.8	648.6	53,291.2	56,186.4

¹ Apples & apple juice assumed to equal the previous year; current year production data has not yet been released.

² Includes sugar and tropical products, minor oilseeds, essential oils, beverages other than juice, nursery and greenhouse, wine and miscellaneous vegetable products. ³ Totals may not add due to rounding.

Source: *Foreign Agricultural Trade of the U.S.*, ERS, USDA, July 2004.

Weather

First and Last Freeze Dates, Tennessee

District/Station	First Freeze ¹ Dates	Last Freeze ¹ Dates
	50%	50%
West Tennessee		
Bolivar	10/24	4/06
Brownsville	10/29	4/01
Covington	10/30	3/31
Dyersburg	11/04	3/26
Jackson Exp Station	10/24	4/06
Jackson Airport	10/28	4/03
Martin UT	10/25	4/07
Memphis Airport	11/07	3/23
Milan	10/23	4/05
Newbern	10/24	4/01
Paris	10/22	4/11
Samburg Wld Refuge	10/25	4/04
Union City	10/20	4/06
Middle Tennessee		
Clarksville	10/22	4/12
Columbia	10/20	4/08
Dickson	10/22	4/09
Dover	10/14	4/22
Franklin	10/21	4/14
Lewisburg	10/20	4/15
Murfreesboro	10/22	4/10
Nashville	10/29	4/05
Savannah	10/25	4/09
Shelbyville	10/21	4/15
Springfield	10/19	4/10
Waynesboro	10/11	4/27
Cumberland Plateau		
Allardt	10/16	4/22
Celina	10/20	4/20
Crossville	10/15	4/26
McMinnville	10/23	4/11
Monteagle	10/29	4/11
Tullahoma	10/21	4/09
East Tennessee		
Bristol	10/21	4/17
Chattanooga	11/01	4/05
Copperhill	10/18	4/21
Gatlinburg	10/15	5/01
Greeneville	10/20	4/23
Kingsport	10/20	4/16
Knoxville UT	11/06	3/29
Lenoir City	10/27	4/13
Newport	10/21	4/17
Oak Ridge	10/27	4/11
Rogersville	10/17	4/22

¹ Probability of 50%, that the “first frost” will occur before the fall date listed or the “last frost” will occur after the spring date listed.

Source: Freeze/Frost Occurrence Data, January 1988, National Climate Data Center.

Usual Planting and Harvesting Dates, Tennessee

Crop	Usual Planting Dates	Usual Harvesting Dates	Principal Producing Agricultural Statistics Districts ¹
Corn:			
Grain	Apr. 5 - June 1	Sep. 20 - Oct. 15	Statewide
Silage	Apr. 15 - June 10	Aug. 25 - Sep. 20	Statewide
Cotton	Apr. 25 - June 5	Oct. 5 - Nov. 1	10, 20
Sorghum:			
Grain	Apr. 15 - June 25	Sep. 15 - Oct. 10	10,20,30,40
Silage	Apr. 25 - June 25	Sep. 1 - Sep. 30	10,20,30,40
Soybeans	May 10 - July 10	Oct. 20 - Nov. 15	10,20,30,40
Winter Wheat	Sep. 25 - Nov. 30	June 15 - June 30	Statewide
Tobacco:			
Eastern			
Dark-Fired (22)	May 5 - June 20	Aug. 25 - Sep. 15	30,40
Western			
Dark-Fired (23)	May 5 - June 20	Aug. 25 - Sep. 15	Henry, Weakley
Burley (31)	May 5 - June 20	Aug. 25 - Sep. 15	20,30,40,50,60
One Sucker (35)	May 5 - June 20	Aug. 25 - Sep. 15	20,30,40
Vegetable Crops:			
Fresh Market			
Tomatoes	Apr. 20 - May 25	July 1 - Aug. 31	10,50,60
			Cumberland
Snap Beans	May 1 - July 31	July 1 - Sep. 30	Plateau
Fruit:			
Apples			
East		Aug. 20 - Sep. 30	50,60
Middle, West		Aug. 1 - Sep. 15	10,20,30,40
Peaches		July 1 - Aug. 10	Statewide

¹ See State Map on Page 38 for District boundaries.

Normal Precipitation

Location	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Inches													
West Tennessee													
Ames	4.63	4.32	5.83	5.51	5.68	4.71	4.38	2.86	3.89	3.67	5.23	5.36	56.07
Covington	4.21	4.27	5.41	5.34	5.22	4.20	4.13	2.75	3.62	3.26	5.28	5.61	53.30
Dyersburg	3.79	4.19	4.69	4.81	4.74	4.49	4.22	2.95	3.02	3.45	4.87	5.14	50.36
Jackson Airport	4.33	4.25	5.13	5.11	5.64	5.19	4.74	2.88	3.76	3.32	5.07	5.36	54.78
Jackson Exp Stn	4.32	4.17	5.39	4.79	5.78	4.99	4.74	2.92	3.91	3.39	5.11	5.35	54.86
Martin	3.76	4.31	4.93	5.13	5.23	4.50	4.80	3.11	3.61	3.59	4.98	5.18	53.13
Memphis Airport	4.24	4.31	5.58	5.79	5.15	4.30	4.22	3.00	3.31	3.31	5.76	5.68	54.65
Milan	4.31	4.31	5.16	4.82	5.49	4.51	4.65	3.03	4.24	3.33	4.89	5.64	54.38
Paris	4.23	4.40	5.31	4.73	5.02	4.58	4.51	3.76	3.90	3.35	4.86	5.03	53.68
Union City	3.71	4.05	4.94	4.86	5.08	4.80	4.17	3.19	3.25	3.81	4.98	4.97	51.81
Middle Tennessee													
Columbia	4.66	4.35	6.25	4.85	5.57	4.14	5.03	3.48	3.94	3.55	4.85	5.46	56.13
Lewisburg	4.97	4.07	6.32	4.51	5.33	4.43	4.58	3.12	4.50	3.79	5.15	5.38	56.15
Nashville	3.97	3.69	4.87	3.93	5.07	4.08	3.77	3.28	3.59	2.87	4.45	4.54	48.11
Springfield	4.04	3.96	5.12	4.25	5.53	4.51	4.17	3.19	3.70	3.36	4.43	4.89	51.15
East Tennessee													
Bristol	3.52	3.40	3.91	3.23	4.32	3.89	4.21	3.00	3.08	2.30	3.08	3.39	41.33
Chattanooga	5.40	4.85	6.19	4.23	4.28	3.99	4.73	3.59	4.31	3.26	4.88	4.81	54.52
Crossville Airport	5.15	4.33	6.07	4.60	5.48	4.73	5.13	4.07	3.91	3.24	5.23	5.16	57.10
Crossville Exp	5.78	4.79	6.37	4.78	5.87	4.81	5.04	3.81	3.84	3.71	5.29	6.20	60.29
Greeneville	3.53	3.48	4.31	3.72	4.47	4.22	4.73	3.80	3.25	2.35	3.00	3.42	44.28
Knoxville Airport	4.57	4.01	5.17	3.99	4.68	4.04	4.71	2.89	3.04	2.65	3.98	4.49	48.22
Knoxville Exp Stn	5.30	4.43	5.66	4.22	4.98	4.49	4.91	3.52	3.25	3.05	4.43	5.09	53.33

Source: *Tennessee Normal Monthly Precipitation Totals, 1971-2000*, Southern Regional Climate Center/ Louisiana State University, Baton Rouge, Louisiana.

Tennessee Agricultural Statistics Districts

